CONTENTS

NUMBER 1

P. M. Barrer, N. T. Starick, R. Morton and E. Jane Wright	1	Factors influencing initiation of flight by *Rhyzopertha dominica* (F.) (Coleoptera: Bostrichidae)
B. Delobel and A. M. Grenier	7	Effect of non-cereal food on cereal weevils and tamarind pod weevil (Coleoptera: Curculionidae)
B. Clarke	15	A powdered chemical mixer for bagged grain
D. P. Giga, I. Kadzere and J. Canhao	19	Bionomics of four strains of *Callosobruchus rhodesianus* (Pic) (Coleoptera: Bruchidae) infesting different food legumes
Zaky M. F. Rostom	27	Survey of some granivorous and non-granivorous insects and mites of stores in Saudi Arabia
Syed Khalid Ahmad	33	Mycoflora changes and aflatoxin production in stored blackgram seeds
J. Bielewicz, S. Cenkowski and W. E. Muir	37	Pretreatment effects on equilibrium moisture contents of canola
James J. Madenjian, Joseph D. Eifert and John F. Lawrence	45	Ciidae: newly recognized beetle pests of commercial dried mushrooms
Dogo Seck	49	Resistance to *Callosobruchus maculatus* F. (Col., Bruchidae) in some cowpea varieties from Senegal
W. H. O. Ernst	53	Food consumption, life history and determinants of host range in the bruchid beetle *Specularius impressithorax* (Coleoptera: Bruchidae)
D. P. Giga and Sr. J. Canhao	63	Competition between *Prostephanus truncatus* (Horn) and *Sitophilus zeamais* (Motsch.) in maize at two temperatures
Patrick V. Vail, Darlene F. Hoffmann and J. Steven Tebbets	71	Autodissemination of *Plodia interpunctella* (Hübner) (Lepidoptera: Pyralidae) granulosis virus by healthy adults
A. K. Choudhary and K. K. Sinha	75	Competition between a toxigenic *Aspergillus flavus* strain and other fungi on stored maize kernels
D. P. Locatelli and E. Daolio	81	Effectiveness of carbon dioxide under reduced pressure against some insects infesting packaged rice
S. Kumar, R. K. Sinha and T. Prasad	89	Propionic acid as a preservative of maize grains in traditional storage in India
Ifedioramma E. Nwana	95	A survey of storage Coleoptera which attack dried cocoyam chips in Nigeria

NUMBER 2

P. F. Credland	iii	Editor's introductory note
D. G. H. Halstead	99	Keys for the identification of beetles associated with stored products—II. Laemophloeidae, Passandridae and Silvanidae

NUMBER 3

Jeremy R. Ashworth 199 The biology of *Ephestia elutella*

George N. Mbata 207 Evaluation of susceptibility of varieties of cowpea to *Callosobruchus maculatus* (F.) and *Callosobruchus subinnotatus* (Pic.) (Coleoptera: Bruchidae)

G. J. Daglish, E. A. Hall, M. J. Zorzetto, T. M. Lambkin and J. M. Erbacher 215 Evaluation of protectants for control of *Acanthoscelides obtectus* (Say) (Coleoptera: Bruchidae) in navybeans (*Phaseolus vulgaris* (L.))

A. K. Singh and G. R. Thorpe 221 A solution procedure for three-dimensional free convective flow in peaked bulks of grain

Mahmoud Fadl Ali 237 Biological studies on immature and adult stages of *Attagenus fasciatus* (Thunberg) (Coleoptera: Dermestidae)

A. Heddi and P. Nardon 243 Mitochondrial DNA expression in symbiotic and aposymbiotic strains of *Sitophilus oryzae*

Frank H. Arthur 253 Evaluation of prallethrin aerosol to control stored product insect pests

Catherine Regnault-Roger and Abdelaziz Hamraoui 259 Efficiency of plants from the South of France used as traditional protectants of *Phaseolus vulgaris* L. against its bruchid *Acanthoscelides obtectus* (Say)

P. S. Sujatha and Aparna Dutta-Gupta 265 Effect of hormones on total haemocyte count during the post-embryonic development of *Corcyra cephalonica* (Lepidoptera)

Yousif N. Aldryhim 271 Combination of classes of wheat and environmental factors affecting the efficacy of amorphous silica dust, dryacide, against *Rhyzopertha dominica* (F.)

Agnes W. Brokerhof, Richard Morton and H. Jonathan Banks 277 Time–mortality relationships for different species and developmental stages of clothes moths (Lepidoptera: Tineidae) exposed to cold

NUMBER 4

P. D. Cox, J. E. Atkinson, K. L. Bannon and J. Hatfield 283 Studies of refuge-seeking behaviour and locomotory activity in *Cryptolestes ferrugineus* (Stephens) (Coleoptera: Cucujidae) using time-lapse video recordings

Jeremy R. Ashworth 291 The biology of *Lasioderma serricorne*

Agnes W. Brokerhof and H. Jonathan Banks 305 Cold tolerance of *Tineola bisselliella* (Lepidoptera: Tineidae) eggs at slow cooling rate

V. Lienard, D. Seck, G. Lognay, C. Gaspar and M. Severin 311 Biological activity of *Cassia occidentalis* L. against *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae)

T. K. Dongre, S. E. Pawar and M. R. Harwalkar 319 Resistance to *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae) in pigeonpea (*Cajanus cajan* (L.) Millsp.) and other *Cajanus* species

Nurit Kamin-Belsky and David Wool 323 Ecological aspects of digestive enzyme covariation in almond moth larvae, *Ephestia cautella* (Walker) (Lepidoptera, Phyticidae)

D. K. Kossou, J. H. Mareck and N. A. Bosque-Pérez	333	Comparison of improved and local maize varieties in the Republic of Benin with emphasis on susceptibility to *Sitophilus zeamais* Motschulsky
G. J. Daglish, J. M. Erbacher and M. Eelkema	345	Efficacy of protectants against *Callosobruchus phaseoli* (Gyll.) and *C. maculatus* (F.) (Coleoptera: Bruchidae) in mungbeans
K. S. Bilgrami and A. K. Choudhary	351	Impact of habitats on toxigenic potential of *Aspergillus flavus*
H. L. Beasley, J. H. Skerritt, A. S. Hill and J. M. Desmarchelier	357	Rapid field tests for the organophosphorus pesticides, fenitrothion and pirimiphos-methyl—reliable estimates of residues in stored grain
Corrigendum	I	

AUTHOR INDEX

Ahmad S. K., 33
Aldryhim Y. N., 271
Ali M. F., 237
Arthur F. H., 253
Ashworth J. R., 199, 291
Atkinson J. E., 283

Banks H. J., 277, 305
Bannon K. L., 283
Barrer P. M., 1
Beasley H. L., 357
Bielewicz J., 37
Bilgrami K. S., 351
Bosque-Pérez N. A., 333
Brokerhof A. W., 277, 305

Canhao J., 19
Canhao Sr. J., 63
Cenkowski S., 37
Choudhary A. K., 75, 351
Clarke B., 15
Cox P. D., 283

Daglish G. J., 215, 345
Daolio E., 81
Delobel B., 7
Desmarchelier J. M., 357
Dongre T. K., 319
Dutta-Gupta A., 265

Eelkema M., 345
Eifert J. D., 45
Erbacher J. M., 215, 345
Ernst W. H. O., 53

Gaspar C., 311
Giga D. P., 19, 63
Grenier A. M., 7

Hall E. A., 215
Halstead D. G. H., 99
Hamraoui A., 259
Harwalkar M. R., 319
Hatfield J., 283
Heddi A., 243
Hill A. S., 357
Hoffmann D. F., 71

Kadzere I., 19
Kamin-Belsky N., 323
Kossou D. K., 333
Kumar S., 89

Lambkin T. M., 215
Lawrence J. F., 45
Lienard V., 311
Locatelli D. P., 81
Lognay G., 311

Madenjian J. J., 45
Mareck J. H., 333
Mbata G. N., 207
Morton R., 1, 277
Muir W. E., 37

Nardon P., 243
Nwana I. E., 95

Pawar S. E., 319
Prasad T., 89

Regnault-Roger C., 259
Rostom Z. M. F., 27

Seck D., 49, 311
Severin M., 311
Singh A. K., 221
Sinha K. K., 75
Sinha R. K., 89
Skerritt J. H., 357
Starick N. T., 1
Sujatha P. S., 265

Tebbets J. S., 71
Thorpe G. R., 221

Vail P. V., 71

Wool D., 323
Wright E. J., 1

Zorzetto M. J., 215

Typeset in Great Britain by BPCC Techset Ltd, Exeter. Printed by BPCC Wheatons Ltd, Exeter